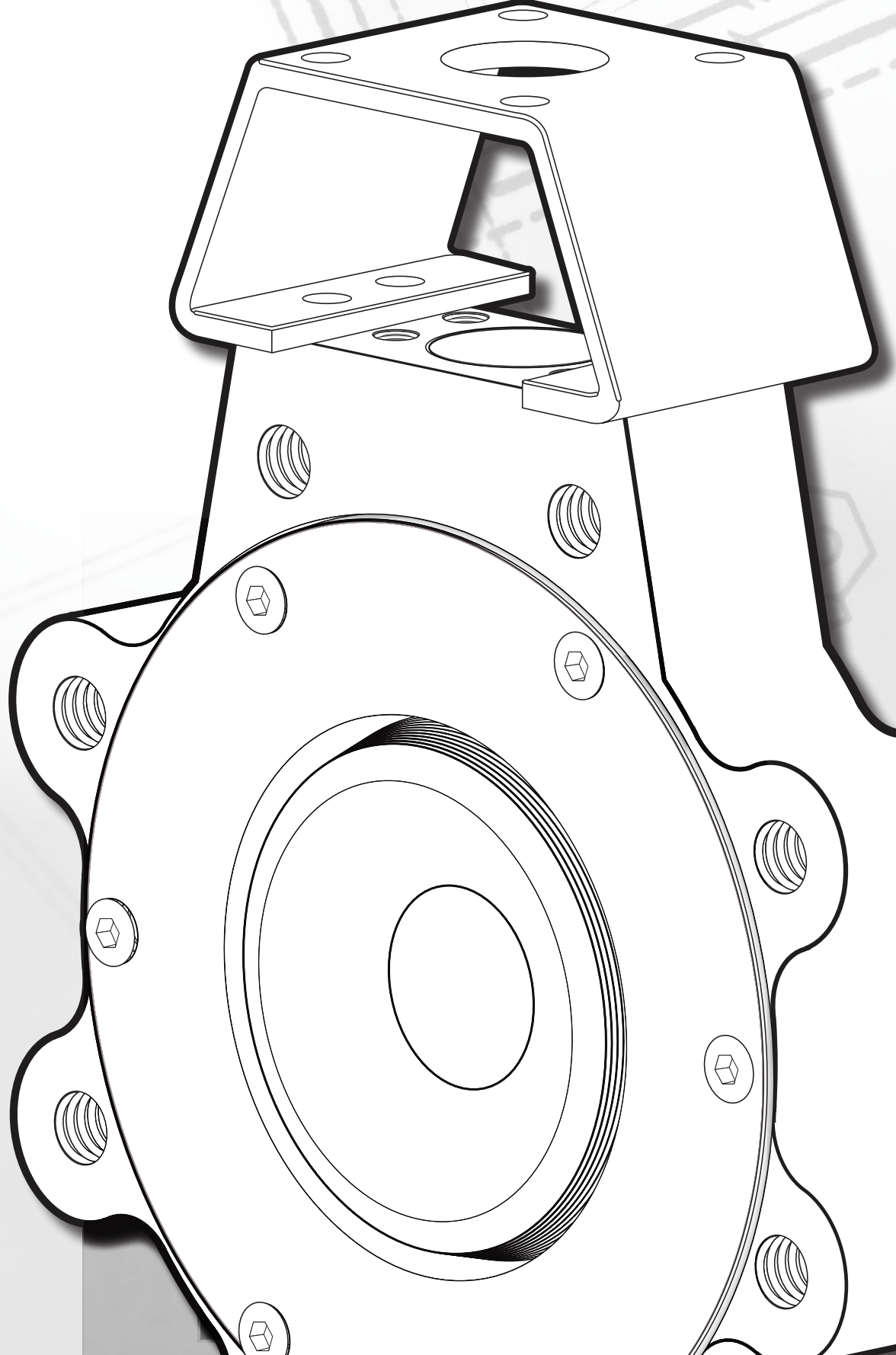


Bray®

Double Offset
High Performance Butterfly Valves
SALES REFERENCE DRAWINGS





Double Offset High Performance Butterfly Valves SALES REFERENCE DRAWINGS

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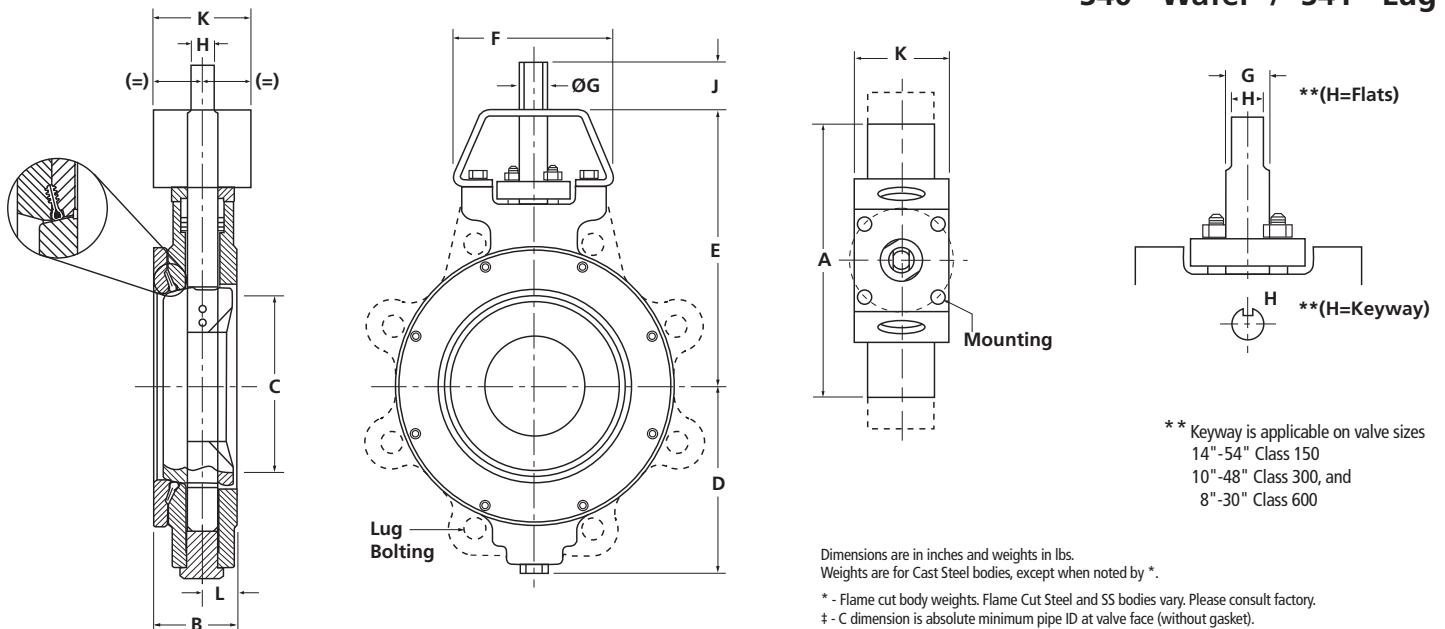




Standard Series 40/41 Bray McCannalok

Sizes 2½" - 60" • ASME 150 • Dimensions

S40 - Wafer / S41 - Lug



** Keyway is applicable on valve sizes
14"-54" Class 150
10"-48" Class 300, and
8"-30" Class 600

Dimensions are in inches and weights in lbs.
Weights are for Cast Steel bodies, except when noted by *.

* - Flame cut body weights. Flame Cut Steel and SS bodies vary. Please consult factory.
‡ - C dimension is absolute minimum pipe ID at valve face (without gasket).

IMPERIAL DIMENSIONS: Inches

Valve Size	A	B	C‡	D	E	F	Mounting Data			G	H**	J	K	L	Weight (lbs)	Lug Bolting Data			Weight (lbs)
							BCD	No. Holes	Hole Dia.							BCD	No. Holes	Threads UN-2B	
2½	4.75	1.88	2.28	3.81	6.38	4.36	2.76	4	0.38	0.63	0.43	1.25	2.50	0.77	13	5.50	4	½ - 11	14
3	5.25	1.88	2.86	4.09	6.63	4.36	2.76	4	0.38	0.63	0.43	1.25	2.50	0.77	16	6.00	4	½ - 11	15
4	6.75	2.03	3.72	4.71	7.50	4.36	2.76	4	0.38	0.63	0.43	1.25	2.50	0.75	20	7.50	8	½ - 11	23
5	7.50	2.23	4.80	5.07	7.50	5.12	2.76	4	0.38	0.75	0.51	1.25	4.50	0.94	26	8.50	8	¾ - 10	34
6	8.62	2.23	5.88	5.57	8.00	5.12	2.76	4	0.38	0.75	0.51	1.25	4.50	0.94	33	9.50	8	¾ - 10	47
8	10.75	2.40	7.80	6.94	9.50	5.12	4.92	4	0.53	0.87	0.63	1.25	4.50	0.94	46	11.75	8	¾ - 10	54
10	13.06	2.75	9.78	8.56	10.75	6.12	4.92	4	0.53	1.18	0.87	2.00	4.50	1.07	79	14.25	12	7/8 - 9	94
12	15.50	3.08	11.74	10.18	12.25	6.12	4.92	4	0.53	1.18	0.87	2.00	4.50	1.13	123	17.00	12	7/8 - 9	136
14	17.50	3.73	12.90	11.95	14.50	7.75	4.92	4	0.53	1.38	.39 x .39	2.00	6.50	1.42	208	18.75	12	1 - 8	227
16	19.81	4.11	14.68	12.94	17.75	10.38	6.50	4	0.81	1.97	.47 x .39	2.50	6.50	1.66	313	21.25	16	1 - 8	345
18	21.41	4.61	16.60	14.15	20.00	10.38	6.50	4	0.81	1.97	.47 x .39	2.50	6.50	1.86	402	22.75	16	1½ - 8	442
20	23.68	5.03	18.50	15.26	22.75	10.38	6.50	4	0.81	2.50	.62 x .62	4.00	6.50	2.06	527	25.00	20	1½ - 8	604
24	28.00	6.00	22.50	18.21	25.00	15.38	10.00	8	0.67	3.00	.75 x .75	4.00	11.75	2.44	813	29.50	20	1¼ - 8	930
26	29.50	6.50	22.36	19.23	25.00	15.38	10.00	8	0.67	3.00	.75 x .75	4.00	11.75	2.81	970*	31.75	24	1¼ - 8	1280*
28	32.41	6.50	26.47	20.54	26.75	15.38	10.00	8	0.67	3.00	.75 x .75	4.00	11.75	2.81	1115	34.00	28	1¼ - 8	1300
30	34.50	7.50	28.31	21.36	28.75	19.50	11.73	8	0.81	3.50	.88 x .62	5.25	13.50	3.10	1475	36.00	28	1¼ - 8	1740
32	37.62	7.50	30.19	22.36	30.00	19.50	11.73	8	0.81	3.50	.88 x .62	5.25	13.50	3.22	1650*	38.50	28	1½ - 8	2060*
34	39.62	7.75	30.13	23.86	30.00	19.50	11.73	8	0.81	3.50	.88 x .62	5.25	13.50	3.35	1890*	40.50	32	1½ - 8	2340*
36	40.68	8.26	34.00	25.27	33.00	19.50	11.73	8	0.81	3.50	.88 x .62	5.25	13.50	3.63	1960	42.75	32	1½ - 8	2600
40	51.00	9.50	36.99	27.25	37.00	19.50	11.73	8	0.81	4.50	1.0 x .75	5.25	13.50	4.38	3850*	47.25	36	1½ - 8	3950*
42	53.31	9.50	39.05	29.37	38.00	19.50	11.73	8	0.81	4.50	1.0 x .75	5.25	13.50	4.38	4250*	49.50	36	1½ - 8	4300
48	54.00	10.00	46.09	33.12	42.13	24.00	14.02	8	1.25	5.00	1.25 x .88	6.00	16.00	4.50	4610*	56.00	44	1½ - 8	5680*
54	66.38	10.75	52.45	35.65	45.50	24.00	14.02	8	1.25	6.00	1.5 x 1.0	6.50	16.00	4.75	7100*	62.75	44	1 3/4 - 8	7210*
60	73.00	12.50	57.07	39.44	50.75	26.00	15.98	8	1.50	7.00	1.75 x 1.5	7.50	18.70	4.75	-----*	69.25	52	1 3/4 - 8	9360

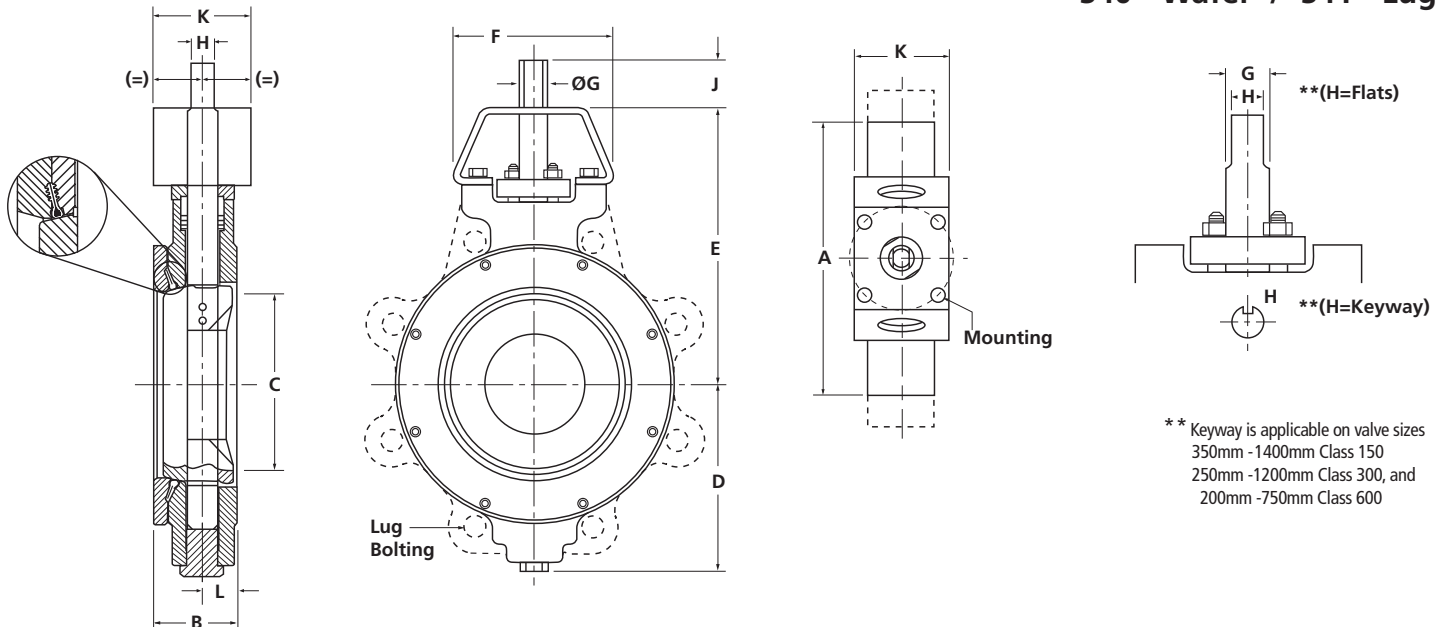
Drawings are for reference only. Please refer to Bray ES drawings on the Bray website, www.bray.com. Bray reserves the right to change product dimensions without notice.

SR Drawing #40/41-2.5/60-in. August 2012- Rev. 0

Inquire/P.O. No.: _____

Customer/Project: _____

Bray Order No.: _____



Dimensions are in mm and weights in kgs.

Weights are for Cast Steel bodies, except when noted by *.

* - Flame cut body weights. Flame Cut Steel and SS bodies vary. Please consult factory.

‡ - C dimension is absolute minimum pipe ID at valve face (without gasket).

METRIC DIMENSIONS: Millimeters

Valve Size	A	B	C‡	D	E	F	Mounting Data			G	H**	J	K	L	Weight (kg)	Lug Bolting Data			Weight (kg)
							BCD	No. Holes	Hole Dia.							PCD	No. Holes	Threads UN-2B	
65	121	48	58	97	162	111	70	4	9.6	16	11	32	64	20	6	140	4	5/8 - 11	6
80	133	48	73	104	168	111	70	4	9.6	16	11	32	64	20	7	152	4	5/8 - 11	7
100	171	52	94	120	191	111	70	4	9.6	16	11	32	64	19	9	191	8	5/8 - 11	10
125	191	57	122	129	191	130	70	4	9.6	19	13	32	114	24	12	216	8	3/4 - 10	15
150	219	57	149	141	203	130	70	4	9.6	19	13	32	114	24	15	241	8	3/4 - 10	21
200	273	61	198	176	241	130	125	4	13.5	22	16	32	114	24	21	298	8	3/4 - 10	24
250	332	70	248	217	273	155	125	4	13.5	30	22	51	114	27	36	362	12	7/8 - 9	43
300	394	78	298	259	311	155	125	4	13.5	30	22	51	114	29	56	432	12	7/8 - 9	62
350	445	95	328	304	368	197	125	4	13.5	35	10 x 10	51	165	36	94	476	12	1 - 8	103
400	503	104	373	329	451	264	165	4	20.5	50	12 x 10	64	165	42	142	540	16	1 - 8	156
450	544	117	422	359	508	264	165	4	20.5	50	12 x 10	64	165	47	182	578	16	1 1/8 - 8	200
500	601	128	470	388	578	264	165	4	20.5	64	15.8 x 15.8	102	165	52	239	635	20	1 1/8 - 8	274
600	711	152	572	463	635	391	254	8	17.0	76	19 x 19	102	298	62	369	749	20	1 1/4 - 8	422
650	749	165	568	488	635	391	254	8	17.0	76	19 x 19	102	298	71	440	806	24	1 1/4 - 8	581
700	823	165	672	522	679	391	254	8	17.0	76	19 x 19	152	298	71	506	864	28	1 1/4 - 8	590
750	876	191	719	543	730	495	298	8	20.5	89	22.3 x 15.8	133	343	79	669	914	28	1 1/4 - 8	789
800	956	191	767	568	762	495	298	8	20.5	88.9	22.3 x 15.8	133	343	82	748	978	28	1 1/2 - 8	934
850	1006	197	765	606	762	495	298	8	20.5	89	22.3 x 15.8	133	343	85	857	1029	32	1 1/2 - 8	1061
900	1033	210	864	642	838	495	298	8	20.5	88.9	22.8 x 15.8	133	343	92	889	1086	32	1 1/2 - 8	1179
1000	1295	241	940	692	940	495	298	8	20.5	114	25.4 x 19.05	133	343	111	1746	1200	36	1 1/2 - 8	1792
1050	1354	241	992	746	965	495	298	8	20.5	114	25.4 x 19.05	133	343	111	1928	1257	36	1 1/2 - 8	1950
1200	1372	254	1171	841	1070	610	356	8	31.7	127	31.7 x 22.3	152	406	114	2091	1422	44	1 1/2 - 8	2576
1400	1686	273	1332	906	1156	610	356	8	31.7	152	38.1 x 25.4	165	406	121	3221	1594	44	1 3/8 - 8	3270

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SR Drawing #40/41-2.5/60-m August 2012- Rev. 0

Inquire/P.O. No.: _____

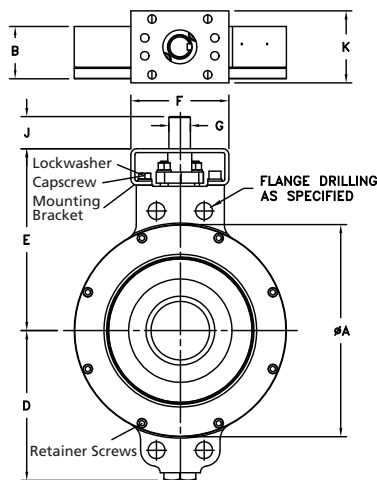
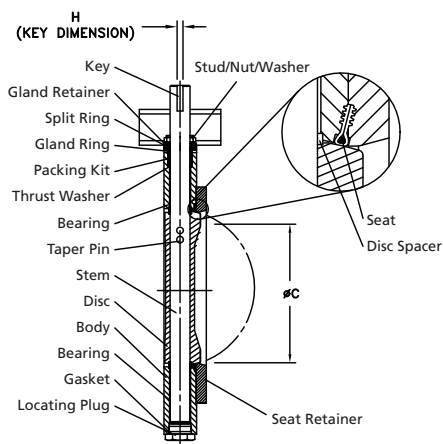
Customer/Project: _____

Bray Order No.: _____



Standard Series 42/43 Bray McCannalok

Sizes 2½" - 48" (65mm - 1200mm) • ASME 300 • Dimensions



S42 - Wafer / S43 - Lug

IMPERIAL DIMENSIONS: Inches

Valve Size	A	B	C	D	E	F	Top Plate Drilling			G	H	J	K	L	Weight (lbs.)	Lug Bolting Data			Weight (lbs.)
							BC	No of Holes	Hole Dia.							BC	No. of Holes	Threads UN-2B	
2½	4.75	1.88	2.28	3.81	6.38	4.36	2.76	4	0.38	0.63	0.43	1.25	2.5	0.77	15	5.88	8	¾-10	13
3	5.25	1.88	2.86	4.09	6.63	4.36	2.76	4	0.38	0.63	0.43	1.25	2.5	0.77	17	6.62	8	¾-10	16
4	6.75	2.03	3.72	4.71	7.5	4.36	2.76	4	0.38	0.63	0.43	1.25	2.5	0.75	23	7.88	8	¾-10	20
5	8.25	2.23	4.8	5.13	8.0	5.12	2.76	4	0.38	0.75	0.51	1.25	4.5	0.94	39	9.25	8	¾-10	33
6	8.88	2.42	5.75	6.25	8.75	5.12	4.92	4	0.53	0.87	0.63	1.25	4.5	0.97	54	10.62	12	¾-10	40
8	10.94	2.82	7.56	7.55	10.0	6.12	4.92	4	0.53	1.18	0.87	2.0	4.5	1.1	89	13.0	12	7/8-9	68
10	13.26	3.28	9.44	9.36	11.38	6.12	4.92	4	0.53	1.38	.39 x .39	2.0	4.5	1.28	144	15.25	16	1-8	113
12	15.57	3.62	11.31	10.89	13.5	7.75	4.92	4	0.53	1.38	.39 x .39	2.0	6.5	1.4	217	17.75	16	1½-8	173
14	17.9	4.66	11.38	12.5	18.25	10.38	6.5	4	0.81	1.97	.47 x .39	2.5	6.5	2.13	444	20.25	20	1½-8	328
16	19.94	5.35	14.31	13.88	21.0	10.38	6.5	4	0.81	2.5	.62 x .62	4.0	6.5	2.5	592	22.5	20	1½-8	455
18	22.0	5.98	15.0	15.43	21.0	15.38	10.0	8	0.67	2.5	.62 x .62	4.0	11.75	2.65	856	24.75	24	1½-8	605
20	24.1	6.34	16.5	16.8	22.25	15.38	10.0	8	0.67	3.0	.75 x .75	4.0	11.75	2.9	1050	27.0	24	1½-8	780
24	28.88	7.15	20.68	19.8	26.25	19.5	11.73	8	0.81	3.5	.88 x .62	5.25	13.5	3.4	1720	32.0	24	1½-8	1260
30	35.12	8.98	26.81	23.4	32.25	24.0	14.02	8	1.25	4.5	1.0 x .75	5.25	16.0	4.38	3010	39.25	28	1¾-8	2260
36	42.0	10.67	33.13	27.12	36.25	24.0	14.02	8	1.25	5.0	1.25 x .88	6.0	16.0	5.23	4400	46.0	32	2-8	3320
42	50.75	11.5	38.88	29.25	40.5	26.0	15.98	8	1.5	6.0	1.5 x 1.0	6.5	18.7	5.13	4700	47.5	32	1½-8	5000
48	57.75	12.5	45.75	33.16	44.75	29.0	19.02	12	1.5	7.0	1.75 x 1.5	7.5	22.0	5.5	7000	54.0	32	1½-8	—

METRIC DIMENSIONS: Millimeters

Valve Size	A	B	C	D	E	F	Top Plate Drilling			G	H	J	K	L	Weight (kg.)	Lug Bolting Data			Weight (kg.)
							BC	No of Holes	Hole Dia.							BC	No. of Holes	Threads UN-2B	
65	121	48	58	97	162	111	70	4	9.6	16	11	32	64	20	7	149	8	¾-10	6
80	133	48	73	104	168	111	70	4	9.6	16	11	32	64	20	8	168	8	¾-10	7
100	171	52	94	120	191	111	70	4	9.6	16	11	32	64	19	10	200	8	¾-10	9
125	210	57	122	130	203	130	70	4	9.6	19	13	32	114	24	18	235	8	¾-10	15
150	226	61	146	159	222	130	125	4	13.5	22	16	32	114	25	25	270	12	¾-10	18
200	278	72	192	192	254	155	125	4	13.5	30	22	51	114	28	40	330	12	7/8-9	31
250	337	83	240	238	289	155	125	4	13.5	35	10 x 10	51	114	33	65	387	16	1-8	51
300	395	92	287	277	343	197	125	4	13.5	35	10 x 10	51	165	36	99	451	16	1½-8	78
350	455	118	289	318	464	264	165	4	20.5	50	12 x 10	64	165	54	202	514	20	1½-8	149
400	506	136	363	353	533	264	165	4	20.5	64	16 x 16	102	165	64	269	572	20	1½-8	206
450	559	152	381	392	533	391	254	8	17.0	64	16 x 16	102	298	67	389	629	24	1½-8	274
500	612	161	419	427	565	391	254	8	17.0	76	19 x 19	102	298	74	477	686	24	1½-8	354
600	734	182	525	503	667	495	298	8	20.5	89	22 x 16	133	343	86	781	813	24	1½-8	572
750	892	228	681	594	819	610	356	8	31.7	114	25 x 19	133	406	111	1367	997	28	1¾-8	1025
900	1067	271	842	689	921	610	356	8	31.7	127	32 x 22	152	406	133	1998	1168	32	2-8	1506
1050	1289	292	988	743	1029	660	406	8	38.1	152	38 x 25	165	475	130	2134	1207	32	1½-8	2268
1200	1467	318	1162	842	1137	737	483	12	38.1	178	44 x 38	191	559	140	3178	1372	32	1½-8	—

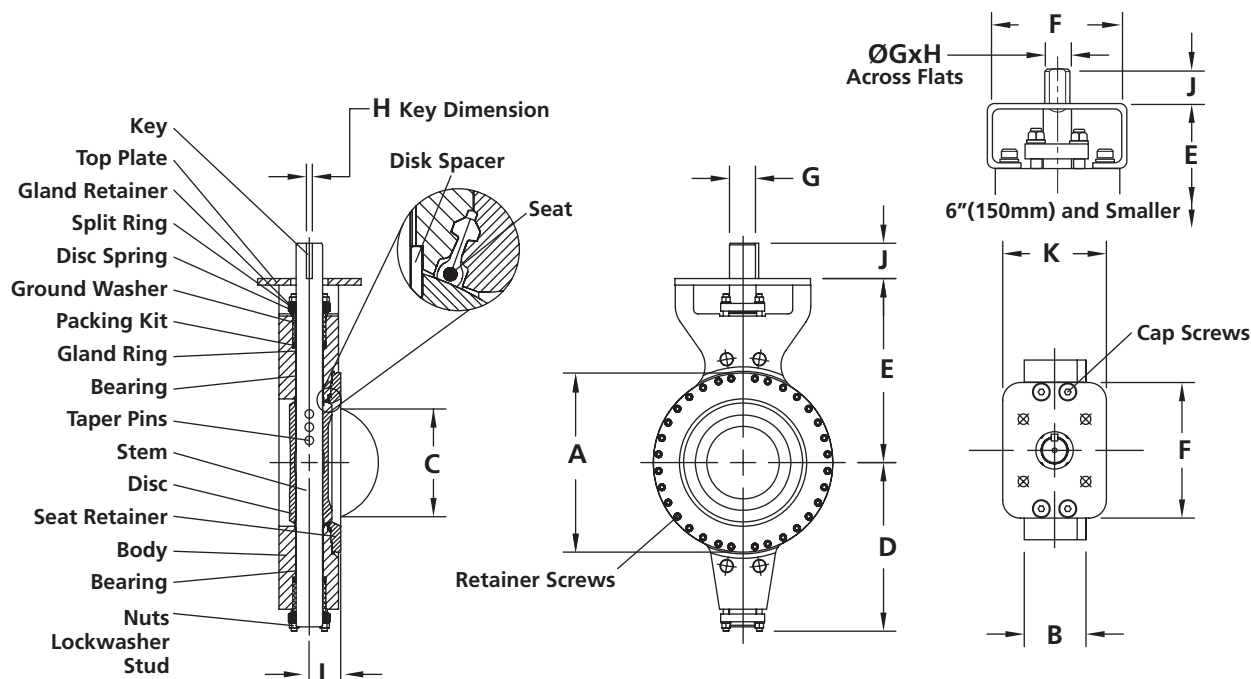
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Inquire/P.O. No.: _____

Bray Order No.: _____

SR Drawing #42/43-2.5/48-im August 2012- Rev. 0

Pg. 4 Customer/Project: _____



Note 1: K dimension is disc chordal dimension at valve face.

Note 2: 28 Retainer screws for size 10" and 12"
32 Retainer screws for size 14", 16" and 20"
38 Retainer screws for size 24"

Note 3: 6 Disc springs in sizes 10", 12", 16" and 20"
4 Disc springs in size 14"
8 Disc springs in sizes 18" and 24"

** Keyway is applicable on valve sizes
14"-54" Class 150
10"-48" Class 300, and
8"-30" Class 600

Dimensions are in inches and weights in lbs.

Weights are for Cast Steel bodies, except when noted by *.

* - Flame cut body weights. Flame Cut Steel and SS bodies vary. Please consult factory.

‡ - C dimension is absolute minimum pipe ID at valve face (without gasket).

IMPERIAL DIMENSIONS: Inches																			
Valve Size	A	B	C‡	D	E	F	Mounting Data			G	H**	J	K	L	Weight (lbs)	Lug Bolting Data			Weight (lbs)
							BCD	No. Holes	Hole Dia.							BCD	No. Holes	Threads UN-2B	
3	5.69	2.12	2.90	5.71	7.00	5.12	2.76	4	0.38	0.75	0.51	1.25	4.50	0.90	31*	6.62	8	¾-10	31*
4	7.00	2.50	3.62	7.04	8.50	5.12	4.92	4	0.53	0.87	0.63	1.25	4.50	1.15	41*	8.50	8	⅞-9	58‡
6	9.62	3.06	5.50	8.57	9.75	6.12	4.92	4	0.53	1.18	0.87	2.00	4.50	1.50	79*	11.50	12	1-8	119*
8	11.69	4.00	7.00	10.80	12.25	7.75	6.50	4	0.81	1.38	.39 x .39	2.00	6.50	1.90	155*	13.75	12	1½-8	227*
10	13.75	4.62	8.75	14.62	17.00	10.38	6.50	4	0.81	1.97	.47 x .39	2.50	6.50	2.15	280*	17.00	16	1¼-8	400*
12	16.12	5.50	10.50	15.72	18.25	10.38	6.50	4	0.81	1.97	.47 x .39	2.50	6.50	2.53	386*	19.25	20	1¼-8	547*
14	17.63	6.12	11.19	17.48	19.75	15.38	10.00	8	0.67	2.50	.62 x .62	4.00	11.75	2.90	549*	20.75	20	1¾-8	750*
16	20.38	7.00	12.81	19.41	21.75	15.38	10.00	8	0.67	3.00	.75 x .75	4.00	11.75	3.44	752*	23.75	20	1½-8	1100*
18	22.88	7.88	14.88	21.05	23.75	19.50	11.73	8	0.81	3.50	.88 x .62	5.25	13.50	3.60	1090*	25.75	20	1⅝-8	1470*
20	24.88	8.50	16.50	23.21	25.75	19.50	11.73	8	0.81	4.00	1.0 x .75	5.25	13.50	3.88	1360*	28.50	24	1⅝-8	1850*
24	29.19	9.13	19.88	27.71	31.00	24.00	14.02	8	1.25	5.00	1.25 x .88	6.00	16.00	3.94	2160*	33.00	24	1⅞-8	2900*
30	CONSULT BRAY FACTORY																		
36	CONSULT BRAY FACTORY																		

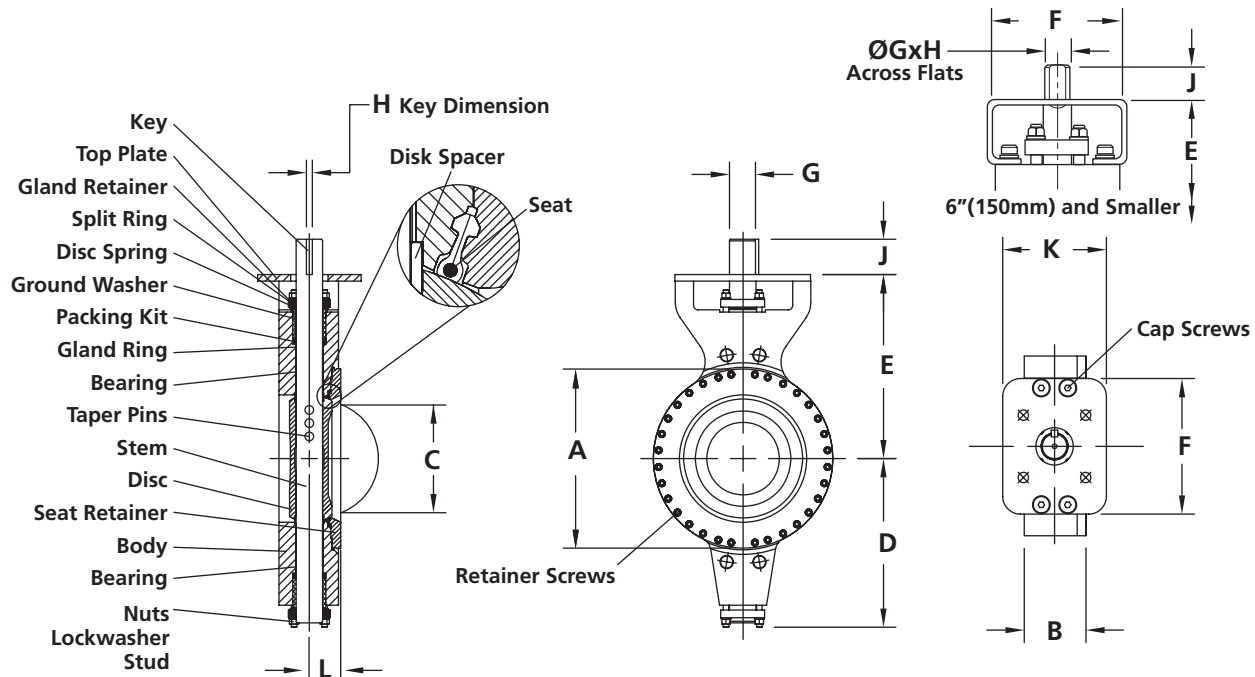
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Inquire/P.O. No.: _____

Bray Order No.: _____

SR Drawing #44/45-3/30-i January 2017- Rev. 1

Customer/Project: _____



Note 1: K dimension is disc chordal dimension at valve face.

Note 2: 28 Retainer screws for size 250mm and 300mm
32 Retainer screws for size 350mm, 400mm and 500mm
38 Retainer screws for size 600mm

Note 3: 6 Disc springs in sizes 250mm, 300mm, 400mm and 500mm
4 Disc springs in size 350mm
8 Disc springs in sizes 450mm and 600mm

** Keyway is applicable on valve sizes
350mm - 1400mm Class 150
250mm - 1467mm Class 300, and
200mm - 750mm Class 600

Dimensions are in mm and weights in kgs.

Weights are for Cast Steel bodies, except when noted by *.

* - Flame cut body weights. Flame Cut Steel and SS bodies vary. Please consult factory.

‡ - C dimension is absolute minimum pipe ID at valve face (without gasket).

METRIC DIMENSIONS: Millimeters

Valve Size	A	B	C‡	D	E	F	Mounting Data			G	H**	J	K	L	Weight (kg)	Lug Bolting Data			Weight (kg)
							PCD	No. Holes	Hole Dia.							BCD	No. Holes	Threads UN-2B	
80	147	54	70	145	178	130	70	4	10	19	13	32	114	23	11	168	8	¾-10	14
100	178	64	90	179	216	130	125	4	13	22	16	32	114	29	19	216	8	7/8-9	26
150	248	78	137	218	248	155	125	4	13	30	22	51	114	38	36	292	12	1-8	54
200	300	102	175	274	311	197	165	4	21	35	10 x 10	51	165	48	70	349	12	1½-8	103
250	358	117	216	371	432	264	165	4	21	50	12 x 10	64	165	55	127	432	16	1¼-8	181
300	418	140	257	399	464	264	165	4	21	50	12 x 10	64	165	64	175	489	20	1¼-8	248
350	458	155	276	444	502	391	254	8	17	64	16 x 16	102	298	74	249	527	20	1¾-8	340
400	518	178	321	493	552	391	254	8	17	76	19 x 19	102	298	87	341	603	20	1½-8	499
450	588	200	371	535	603	495	298	8	21	89	22 x 16	133	342.9	91	494	654	20	1¾-8	667
500	639	216	416	590	654	495	298	8	21	102	25 x 19	133	342.9	98.6	617	724	24	1¾-8	839
600	746	232	505	704	787	610	356	8	32	127	32 x 22	152	406	100	980	838	24	1¾-8	1315
750	CONSULT BRAY FACTORY																		
900	CONSULT BRAY FACTORY																		

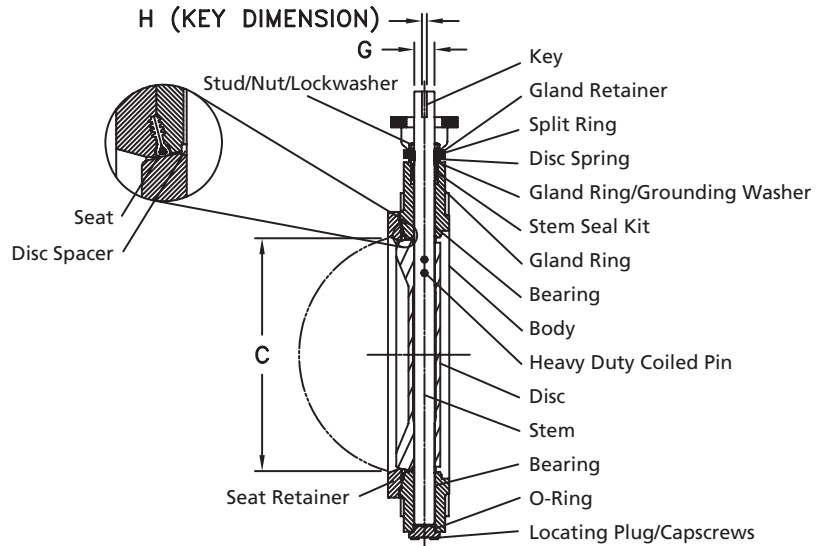
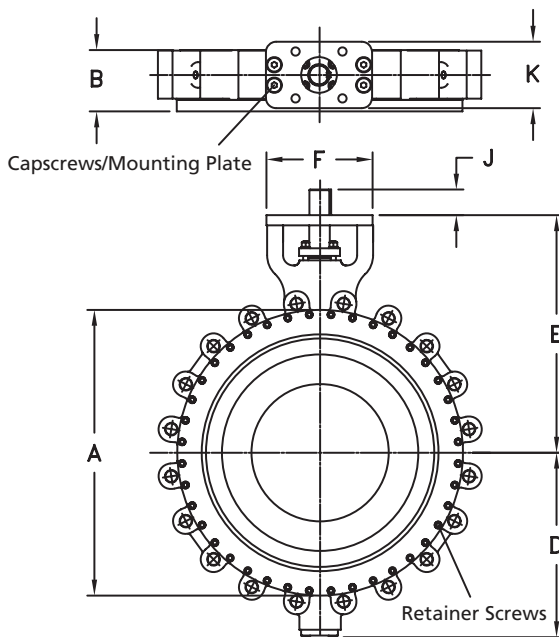
Drawings are for reference only. Please refer to Bray ES drawings on the Bray website, www.bray.com. Bray reserves the right to change product dimensions without notice.

SR Drawing #44/45-3/30-m January 2017- Rev. 1

Inquire/P.O. No.: _____

Customer/Project: _____

Bray Order No.: _____



⚠ Dimensions are different from the Series 41

IMPERIAL DIMENSIONS: Inches

Valve Size	A	B	C	D	E	F	G	H	J	K	Top Plate Drilling				Lug Bolting Data			Adapter Code	Weight (lbs.)
											BC	No. of Holes	Hole Dia.	Flange Type	BC	No. of Holes	Threads UN-2B		
24	27.96	6.00	22.50	18.05	23.25	10.38	1.97	.472 x .394	2.50	6.50	6.50	4	.81	F16	29.50	20	1-1/4-8	G	641
28	32.41	6.50	26.47	20.27	27.50	10.38	2.50	.625 x .625	4.00	6.50	6.50	4	.81	F16	34.00	28	1-1/4-8	H	931
30	34.41	7.50	28.31	21.24	28.50	10.38	2.50	.625 x .625	4.00	6.50	6.50	4	.81	F16	36.00	28	1-1/4-8	H	1187
32	37.62	7.50	30.19	22.18	29.50	10.38	2.50	.625 x .625	4.00	6.50	6.50	4	.81	F16	38.50	28	1-1/2-8	H	1377
36	39.87	8.26	34.00	24.37	30.50	15.38	3.00	.750 x .750	4.00	11.75	10.00	8	.67	F25	42.75	32	1-1/2-8	F25-2	1736
40	44.20	9.50	36.99	27.16	33.25	15.38	3.00	.750 x .750	4.00	11.75	10.00	8	.67	F25	47.25	36	1-1/2-8	F25-2	2660
42	46.20	9.50	39.05	28.16	34.25	15.38	3.00	.750 x .750	4.00	11.75	10.00	8	.67	F25	49.50	36	1-1/2-8	F25-2	2882
48	52.25	10.00	46.09	32.00	40.00	19.50	3.50	.875 x .625	5.25	13.50	11.73	8	.81	F30	56.00	44	1-1/2-8	F30-2	3864
54	66.38	10.75	52.45	35.50	44.25	19.50	4.00	1.000 x .750	5.25	13.50	11.73	8	.81	F30	62.75	44	1-3/4-8	F30-3	4824

METRIC DIMENSIONS: Millimeters

Valve Size	A	B	C	D	E	F	G	H	J	K	Top Plate Drilling				Lug Bolting Data			Adapter Code	Weight (kg.)
											BC	No. of Holes	Hole Dia.	Flange Type	BC	No. of Holes	Threads UN-2B		
600	710	152	572	458	591	264	50	12 x 10	64	165	165	4	21	F16	749	20	1-1/4-8	G	291
650	823	165	672	515	699	264	64	16 x 16	102	165	165	4	21	F16	864	28	1-1/4-8	H	422
750	874	191	719	539	724	264	64	16 x 16	102	165	165	4	21	F16	914	28	1-1/4-8	H	538
800	956	191	767	563	749	264	64	16 x 16	102	165	165	4	21	F16	978	28	1-1/2-8	H	625
900	1013	210	864	619	775	391	76	19 x 19	102	298	254	8	17	F25	1086	32	1-1/2-8	F25-2	787
1000	1123	241	940	690	845	391	76	19 x 19	102	298	254	8	17	F25	1200	36	1-1/2-8	F25-2	1207
1050	1173	241	992	715	870	391	76	19 x 19	102	298	254	8	17	F25	1257	36	1-1/2-8	F25-2	1307
1200	1327	254	1171	813	1016	495	89	22 x 16	133	343	298	8	21	F30	1422	44	1-1/2-8	F30-2	1753
1400	1686	273	1332	902	1124	495	102	25 x 19	133	343	298	8	21	F30	1594	44	1-3/4-8	F30-3	2188

Drawings are for reference only. Please refer to Bray ES drawings on the Bray website, www.bray.com. Bray reserves the right to change product dimensions without notice.

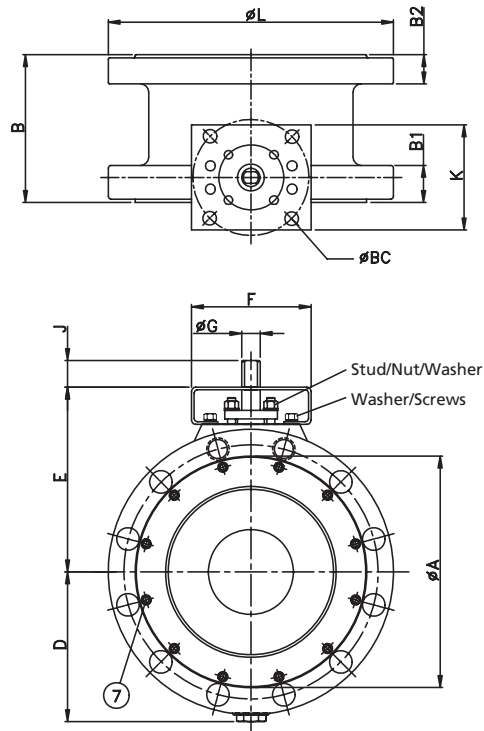
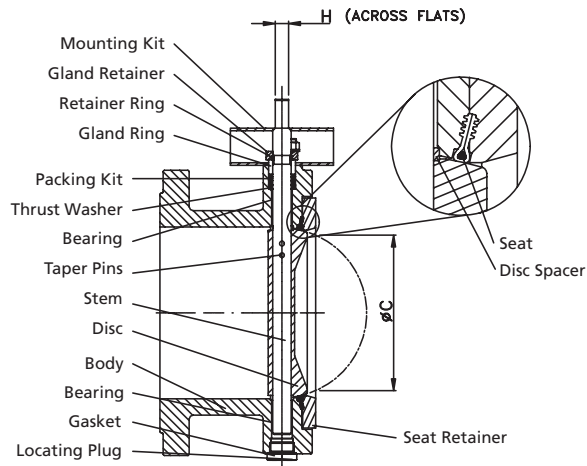
Inquire/P.O. No.: _____

Bray Order No.: _____

SR Drawing #41R-24/54-im August 2012- Rev. 0

Customer/Project: _____

Double Flanged



IMPERIAL DIMENSIONS: Inches

Valve Size	A	B	B1	B2	C	D	E	F	G	H	J	K	L	Top Plate Drilling			Weight (lbs.)
														BC	No of Holes	Hole Diameter	
3	5.25	4.50	1.40	1.06	2.06	4.09	6.63	4.36	.63	.43	1.25	2.50	7.50	2.76	4	.38	29
4	6.75	5.0	1.46	1.06	2.82	4.71	7.50	4.36	.63	.43	1.25	2.50	9.00	2.76	4	.38	42
5	7.50	5.50	1.42	1.00	4.26	5.07	7.50	5.12	.75	.51	1.25	4.50	10.00	2.76	4	.38	53
6	8.62	5.50	1.51	1.06	5.42	5.57	8.00	5.12	.75	.51	1.25	4.50	11.00	2.76	4	.38	62
8	10.75	6.00	1.83	1.18	7.3	6.94	9.50	5.12	.87	.63	1.25	4.50	13.50	4.92	4	.53	100
10	13.06	6.50	1.81	1.35	9.27	8.56	10.75	6.12	1.18	.87	2.00	4.50	16.00	4.92	4	.53	172
12	15.50	7.00	2.14	1.41	11.12	10.18	12.25	6.12	1.18	.87	2.00	4.50	19.00	4.92	4	.53	230
14	17.50	7.50	2.28	1.54	12.13	11.95	14.50	7.75	1.38	.39 x .39	2.00	6.50	21.00	4.92	4	.53	344
16	19.81	8.50	2.24	1.60	13.93	12.94	17.75	10.38	1.97	.47 x .39	2.50	6.50	23.50	6.50	4	.81	551
18	21.41	8.75	2.48	1.72	15.77	14.15	20.00	10.38	1.97	.47 x .39	2.50	6.50	25.00	6.50	4	.81	706
20	23.68	9.00	2.73	1.74	17.65	15.26	22.75	10.38	2.50	.62 x .62	4.00	6.50	28.15	6.50	4	.81	970

METRIC DIMENSIONS: Millimeters

Valve Size	A	B	B1	B2	C	D	E	F	G	H	J	K	L	Top Plate Drilling			Weight (kg.)
														BC	No of Holes	Hole Diameter	
80	133	114	36	27	52	104	168	111	16	11	32	64	191	70	4	9.6	13
100	171	127	37	27	72	120	191	111	16	11	32	64	229	70	4	9.6	19
125	191	140	36	25	108	129	191	130	19.1	13	32	114	254	70	4	9.6	24
150	219	140	38	27	138	141	203	130	19.1	13	32	114	279	70	4	9.6	28
200	273	152	46	30	185	176	241	130	22.1	16	32	114	343	125	4	13.5	45
250	332	165	46	34	235	217	273	155	30.0	22	22	114	406	125	4	13.5	78
300	394	178	54	36	282	259	311	155	30.0	22	22	114	483	125	4	13.5	104
350	445	191	58	39	308	304	368	197	35.1	10 x 10	51	165	533	125	4	13.5	156
400	503	216	57	41	354	329	451	264	50.0	12 x 10	64	165	597	165	4	20.6	250
450	544	222	63	44	401	359	508	264	50.0	12 x 10	64	165	635	165	4	20.6	320
500	601	229	69	44	448	388	578	264	63.5	16 x 16	102	165	715	165	4	20.6	440

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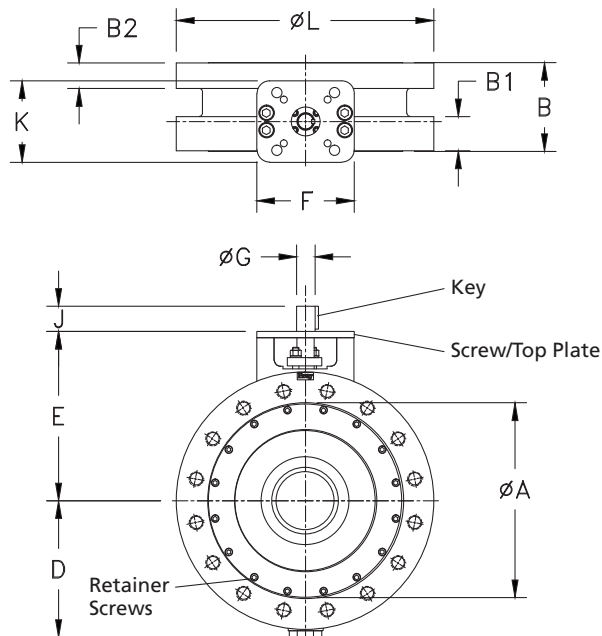
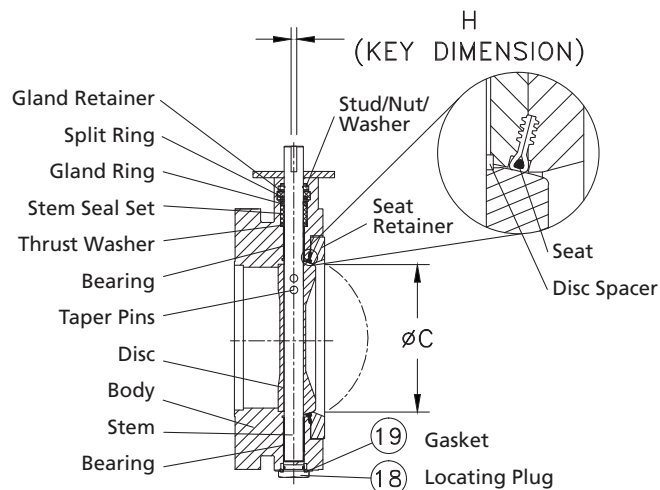
SR Drawing #4A-3/12-im August 2012- Rev. 0

Inquire/P.O. No.: _____

Bray Order No.: _____

Pg. 8 Customer/Project: _____

Double Flanged



IMPERIAL DIMENSIONS: Inches

Valve Size	A	B	B1	B2	C	D	E	F	G	H	J	K	L	Top Plate Drilling				Flange Data						Adapter	Weight (lbs.)
														BC	No of Holes	Hole Dia.	Flange Type	Retainer Side			Far Side				
																		BC	Tapped Holes	Thread Size	Taped Depth	# Thru Holes	Hole Dia.		
3	5.25	4.50	1.52	1.12	2.06	4.09	6.63	4.36	.63	.43	1.25	2.50	8.25	2.76	4	.38	F07	6.63	8	.75-10	Thru	8	.88	B	46
4	6.72	5.00	1.72	1.25	2.82	4.71	7.50	4.36	.63	.43	1.25	2.50	10.00	2.76	4	.38	F07	7.88	8	.75-10	Thru	8	.88	B	68
6	8.88	5.50	1.91	1.44	5.01	6.25	8.75	5.12	.87	.63	1.25	4.50	12.50	4.92	4	.53	F12	10.62	12	.75-10	Thru	12	.88	D	117
8	10.94	6.00	2.17	1.62	6.71	7.55	10.00	6.12	1.18	.87	2.00	4.50	15.50	4.92	4	.55	F12	10.62	12	.75-10	Thru	12	.88	E	194
10	13.26	6.50	2.54	1.88	8.56	9.36	11.38	6.12	1.38	.39	2.00	4.50	17.50	4.92	4	.53	F12	13.00	12	.88-9	Thru	12	1.00	F	299
12	15.57	7.00	2.75	2.00	10.40	10.89	13.50	7.75	1.38	.39	2.00	6.50	20.50	4.92	4	.53	F12	17.75	16	1.13-8	Thru	16	1.25	F	432
14	17.24	7.50	2.94	2.12	10.54	12.50	18.25	10.38	1.97	.39	2.5	6.50	23.00	6.50	4	.81	F16	20.25	16	1.13-8	Thru	16	1.25	G	683
16	19.50	8.50	3.13	2.25	13.53	13.88	21.00	10.38	2.50	.63	4.00	6.50	25.50	6.50	4	.81	F16	22.50	16	1.25-8	Thru	16	1.38	H	902
18	21.38	8.75	3.63	2.38	13.80	15.43	21.00	15.38	2.50	.63	4.00	11.75	28.00	10.00	8	.67	F25	24.75	20	1.25-8	Thru	20	1.38	F25-1	1169
20	23.76	9.00	3.57	2.50	15.50	16.80	22.25	15.38	3.00	.75	4.00	11.75	30.50	10.00	8	.67	F25	27.00	20	1.25-8	Thru	20	1.38	F25-2	1435
24	28.75	10.50	3.88	2.75	19.75	19.80	25.75	19.50	3.50	.63	5.25	13.50	36.00	11.73	8	.81	F30	32.00	20	1.50-8	Thru	20	1.62	F30-2	2206
30	35.00	12.52	5.03	3.62	25.88	23.40	32.25	24.00	4.50	.75	5.25	16.00	43.00	14.02	8	1.25	F35	39.25	24	1.75-8	Thru	24	1.88	F35-3	3814
36	42.06	12.99	5.99	4.12	32.44	27.12	36.25	24.00	5.00	.88	6.00	16.00	50.00	14.02	8	1.25	F35	46.00	28	2.00-8	Thru	28	2.12	F35-4	5122
42	45.63	16.14	6.94	4.69	37.37	29.25	40.50	26.00	6.00	1.0	6.50	18.70	50.75	15.98	8	1.50	F35	47.50	28	1.63-8	Thru	28	1.75	F35-3	5978

METRIC DIMENSIONS: Millimeters

Valve Size	A	B	B1	B2	C	D	E	F	G	H	J	K	L	Top Plate Drilling				Flange Data						Adapter	Weight (kg)
														BC	No of Holes	Hole Dia.	Flange Type	Retainer Side			Far Side				
																		BC	Tapped Holes	Thread Size	Taped Depth	# Thru Holes	Hole Dia.		
80	133	114	39	28	52	104	168	111	16	11	32	64	210	70	4	10	F07	168	8	.75-10	Thru	8	22	B	21
100	171	127	44	32	72	120	191	111	16	11	32	64	254	70	4	10	F07	200	8	.75-10	Thru	8	22	B	31
150	226	140	49	37	127	159	222	130	22	16	32	114	318	125	4	13	F12	270	12	.75-10	Thru	12	22	D	53
200	278	152	55	41	170	192	254	155	30	22	51	114	394	125	4	14	F12	270	12	.75-10	Thru	12	22	E	88
250	337	165	65	48	217	238	289	155	35	10	51	114	445	125	4	13	F12	330	12	.88-9	Thru	12	25	F	136
300	395	178	70	51	264	277	343	197	35	10	51	165	521	125	4	13	F12	451	16	1.13-8	Thru	16	32	F	196
350	438	191	75	54	268	318	464	264	50	10	64	165	584	165	4	21	F16	514	16	1.13-8	Thru	16	32	G	310
400	495	216	80	57	344	353	533	264	64	16	102	165	648	165	4	21	F16	572	16	1.25-8	Thru	16	35	H	409
450	543	222	92	60	351	392	533	391	64	16	102	298	711	254	8	17	F25	629	20	1.25-8	Thru	20	35	F25-1	530
500	604	229	91	64	394	427	565	391	76	19	102	298	775	254	8	17	F25	686	20	1.25-8	Thru	20	35	F25-2	651
600	730	267	99	70	502	503	654	495	89	16	133	343	914	298	8	21	F30	813	20	1.50-8	Thru	20	41	F30-2	1001
750	889	318	128	92	657	594	819	610	114	19	133	406	1092	356	8	32	F35	997	24	1.75-8	Thru	24	48	F35-3	1730
900	1068	330	152	105	824	689	921	610	127	22	152	406	1270	356	8	32	F35	1168	28	2.00-8	Thru	28	54	F35-4	2323
1050	1159	410	176	119	949	743	1029	660	152	25	165	475	1289	406	8	38	F35	1207	28	1.63-8	Thru	28	44	F35-3	2712

Drawings are for reference only. Please refer to Bray ES drawings on the Bray website, www.bray.com. Bray reserves the right to change product dimensions without notice.

SR Drawing #4B-3/42-im October 2016- Rev. 1

Inquire/P.O. No.: _____

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Pg. 9 Customer/Project: _____